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21 August 2013

Mike Rigby  
Waste Water Management, Inc.  
2820 Dorr Ave, Ste 200  
Fairfax, VA 22031  
RE: EC Durango Pilot

Enclosed are the results of analyses for samples received by the laboratory on 08/08/13 17:00.  
If you need any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads 'Debbie Zufelt'.

Debbie Zufelt  
Reports Manager

All accredited analytes contained in this report are denoted by an asterisk (\*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. Our NELAP accreditation can be viewed at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water.

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water.



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Waste Water Management, Inc.  
2820 Dorr Ave, Ste 200  
Fairfax VA, 22031

Project: EC Durango Pilot  
Project Name / Number: BLM  
Project Manager: Mike Rigby

Reported:  
08/21/13 09:40

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Raw	1308113-01	Water	08/08/13 14:00	08/08/13 17:00
2 Min	1308113-02	Water	08/08/13 14:00	08/08/13 17:00
5 Min	1308113-03	Water	08/08/13 14:30	08/08/13 17:00
5 Min #2	1308113-04	Water	08/08/13 14:30	08/08/13 17:00

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Debbie Zufelt, Reports Manager

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Project: EC Durango Pilot  
Project Name / Number: BLM  
Project Manager: Mike Rigby

Reported:  
08/21/13 09:40

## Raw

### 1308113-01 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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#### General Chemistry

Alkalinity, Bicarbonate*	<10.0	10.0		mg/L	2	08/12/13	2320 B		JAW
Alkalinity, Carbonate*	<10.0	10.0		mg/L	2	08/12/13	2320 B		JAW
Alkalinity, Hydroxide*	<10.0	10.0		mg/L	2	08/12/13	2320 B		JAW
Alkalinity, Total*	<10.0	10.0		mg/L	2	08/12/13	2320 B		JAW
Chloride	<10.0	10.0	5.00	mg/L	1	08/13/13	4500-Cl- C		JAW
Conductivity*	2390	10.0		uS/cm	1	08/08/13	2510 B		MJV
pH*	5.50			pH Units	1	08/08/13	EPA150.1		MJV
Phosphate as P, Total	0.0530	0.0500	0.0250	mg/L	1	08/16/13	EPA365.3		KLJ
Sulfate	1650	500	54.0	mg/L	50	08/16/13	4500-SO42- E		ABP
TDS*	2480	10.0		mg/L	1	08/14/13	EPA160.1		ABP

#### Total Recoverable Metals by ICP (E200.7)

Aluminum*	5.20	0.500	0.015	mg/L	10	08/15/13	EPA200.7		JGS
Iron*	158	0.500	0.040	mg/L	10	08/15/13	EPA200.7		JGS
Silica (SiO2)	33.3	10.7	7.39	mg/L	10	08/15/13	Calc		JGS
Silicon	15.6	5.00	3.45	mg/L	10	08/15/13	EPA200.7		JGS

#### Dissolved Metals by ICP

Aluminum*	2.62	0.050	0.001	mg/L	1	08/13/13	EPA200.7		JGS
Calcium*	446	5.00	0.020	mg/L	5	08/13/13	EPA200.7		JGS
Iron*	144	0.050	0.004	mg/L	1	08/13/13	EPA200.7		JGS
Magnesium*	32.1	1.00	0.019	mg/L	1	08/13/13	EPA200.7		JGS
Potassium*	1.28	1.00	0.364	mg/L	1	08/13/13	EPA200.7		JGS
Silica (SiO2)	36.0	1.07	0.739	mg/L	1	08/13/13	Calc		JGS
Silicon	16.8	0.500	0.345	mg/L	1	08/13/13	EPA200.7		JGS
Sodium*	8.39	1.00	0.004	mg/L	1	08/13/13	EPA200.7		JGS

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Project: EC Durango Pilot  
Project Name / Number: BLM  
Project Manager: Mike Rigby

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**Raw****1308113-01 (Water)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Total Recoverable Metals by ICPMS (E200.8)**

Cadmium*	0.0025	0.0010	0.0004	mg/L	10	08/14/13	EPA200.8		JGS
Copper*	0.0106	0.0100	0.0013	mg/L	10	08/14/13	EPA200.8		JGS
Lead*	<0.0050	0.0050	0.0003	mg/L	10	08/14/13	EPA200.8		JGS
Manganese*	46.2	0.0050	0.0042	mg/L	10	08/14/13	EPA200.8		JGS
Zinc*	27.5	0.0500	0.0063	mg/L	10	08/14/13	EPA200.8		JGS

**Dissolved Metals by ICPMS**

Cadmium*	0.0027	0.0010	0.0004	mg/L	10	08/13/13	EPA200.8		JGS
Copper*	0.0108	0.0010	0.0001	mg/L	10	08/13/13	EPA200.8		JGS
Lead*	<0.0050	0.0050	0.0003	mg/L	10	08/13/13	EPA200.8		JGS
Manganese*	50.2	0.0050	0.0042	mg/L	10	08/13/13	EPA200.8		JGS
Zinc*	16.9	0.0100	0.0013	mg/L	10	08/13/13	EPA200.8		JGS

**Total Mercury by CVAA**

Mercury*	<0.0002	0.0002	0.00002	mg/L	1	08/16/13	245.1		JGS
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**Dissolved Mercury by CVAA**

Mercury*	<0.0002	0.0002	0.00002	mg/L	1	08/16/13	245.1		JGS
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**2 Min****1308113-02 (Water)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**General Chemistry**

Alkalinity, Bicarbonate*	<10.0	10.0		mg/L	2	08/12/13	2320 B		JAW
Alkalinity, Carbonate*	<10.0	10.0		mg/L	2	08/12/13	2320 B		JAW
Alkalinity, Hydroxide*	<10.0	10.0		mg/L	2	08/12/13	2320 B		JAW
Alkalinity, Total*	<10.0	10.0		mg/L	2	08/12/13	2320 B		JAW
Chloride	<10.0	10.0	5.00	mg/L	1	08/13/13	4500-Cl- C		JAW
Conductivity*	2270	10.0		uS/cm	1	08/08/13	2510 B		MJV
pH*	4.79			pH Units	1	08/08/13	EPA150.1		MJV
Phosphate as P, Total	<0.0500	0.0500	0.0250	mg/L	1	08/16/13	EPA365.3		KLJ
Sulfate	1550	500	54.0	mg/L	50	08/16/13	4500-SO42- E		ABP
TDS*	2280	10.0		mg/L	1	08/14/13	EPA160.1		ABP

**Total Recoverable Metals by ICP (E200.7)**

Aluminum*	66.0	0.500	0.015	mg/L	10	08/15/13	EPA200.7		JGS
Iron*	214	0.500	0.040	mg/L	10	08/15/13	EPA200.7		JGS
Silica (SiO2)	42.1	10.7	7.39	mg/L	10	08/15/13	Calc		JGS
Silicon	19.7	5.00	3.45	mg/L	10	08/15/13	EPA200.7		JGS

**Dissolved Metals by ICP**

Aluminum*	6.52	0.050	0.001	mg/L	1	08/13/13	EPA200.7		JGS
Calcium*	416	5.00	0.020	mg/L	5	08/13/13	EPA200.7		JGS
Iron*	127	0.050	0.004	mg/L	1	08/13/13	EPA200.7		JGS
Magnesium*	31.2	1.00	0.019	mg/L	1	08/13/13	EPA200.7		JGS
Potassium*	<1.00	1.00	0.364	mg/L	1	08/13/13	EPA200.7		JGS
Silica (SiO2)	32.8	1.07	0.739	mg/L	1	08/13/13	Calc		JGS
Silicon	15.4	0.500	0.345	mg/L	1	08/13/13	EPA200.7		JGS
Sodium*	8.20	1.00	0.004	mg/L	1	08/13/13	EPA200.7		JGS

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2 Min

1308113-02 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Total Recoverable Metals by ICPMS (E200.8)

Cadmium*	0.0021	0.0010	0.0004	mg/L	10	08/14/13	EPA200.8		JGS
Copper*	0.100	0.0100	0.0013	mg/L	10	08/14/13	EPA200.8		JGS
Lead*	0.0419	0.0050	0.0003	mg/L	10	08/14/13	EPA200.8		JGS
Manganese*	46.5	0.0050	0.0042	mg/L	10	08/14/13	EPA200.8		JGS
Zinc*	30.9	0.0500	0.0063	mg/L	10	08/14/13	EPA200.8		JGS

Dissolved Metals by ICPMS

Cadmium*	0.0027	0.0010	0.0004	mg/L	10	08/13/13	EPA200.8		JGS
Copper*	0.0127	0.0010	0.0001	mg/L	10	08/13/13	EPA200.8		JGS
Lead*	0.0071	0.0050	0.0003	mg/L	10	08/13/13	EPA200.8		JGS
Manganese*	42.8	0.0050	0.0042	mg/L	10	08/13/13	EPA200.8		JGS
Zinc*	15.5	0.0100	0.0013	mg/L	10	08/13/13	EPA200.8		JGS

Total Mercury by CVAA

Mercury*	<0.0002	0.0002	0.00002	mg/L	1	08/16/13	245.1		JGS
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Dissolved Mercury by CVAA

Mercury*	<0.0002	0.0002	0.00002	mg/L	1	08/16/13	245.1		JGS
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Reported:  
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**5 Min****1308113-03 (Water)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**General Chemistry**

Alkalinity, Bicarbonate*	<10.0	10.0		mg/L	2	08/12/13	2320 B		JAW
Alkalinity, Carbonate*	<10.0	10.0		mg/L	2	08/12/13	2320 B		JAW
Alkalinity, Hydroxide*	<10.0	10.0		mg/L	2	08/12/13	2320 B		JAW
Alkalinity, Total*	<10.0	10.0		mg/L	2	08/12/13	2320 B		JAW
Chloride	<10.0	10.0	5.00	mg/L	1	08/13/13	4500-Cl- C		JAW
Conductivity*	1980	10.0		uS/cm	1	08/08/13	2510 B		MJV
pH*	4.97			pH Units	1	08/08/13	EPA150.1		MJV
Phosphate as P, Total	<0.0500	0.0500	0.0250	mg/L	1	08/16/13	EPA365.3		KLJ
Sulfate	1340	200	21.6	mg/L	20	08/16/13	4500-SO42- E		ABP
TDS*	2120	10.0		mg/L	1	08/14/13	EPA160.1		ABP

**Total Recoverable Metals by ICP (E200.7)**

Aluminum*	201	0.500	0.015	mg/L	10	08/15/13	EPA200.7		JGS
Iron*	155	0.500	0.040	mg/L	10	08/15/13	EPA200.7		JGS
Silica (SiO2)	32.7	10.7	7.39	mg/L	10	08/15/13	Calc		JGS
Silicon	15.3	5.00	3.45	mg/L	10	08/15/13	EPA200.7		JGS

**Dissolved Metals by ICP**

Aluminum*	2.44	0.050	0.001	mg/L	1	08/13/13	EPA200.7		JGS
Calcium*	362	5.00	0.020	mg/L	5	08/13/13	EPA200.7		JGS
Iron*	109	0.050	0.004	mg/L	1	08/13/13	EPA200.7		JGS
Magnesium*	27.8	1.00	0.019	mg/L	1	08/13/13	EPA200.7		JGS
Potassium*	1.58	1.00	0.364	mg/L	1	08/13/13	EPA200.7		JGS
Silica (SiO2)	23.5	1.07	0.739	mg/L	1	08/13/13	Calc		JGS
Silicon	11.0	0.500	0.345	mg/L	1	08/13/13	EPA200.7		JGS
Sodium*	8.49	1.00	0.004	mg/L	1	08/13/13	EPA200.7		JGS

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5 Min

1308113-03 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Total Recoverable Metals by ICPMS (E200.8)

Cadmium*	0.0018	0.0010	0.0004	mg/L	10	08/14/13	EPA200.8		JGS
Copper*	0.0410	0.0100	0.0013	mg/L	10	08/14/13	EPA200.8		JGS
Lead*	0.0260	0.0050	0.0003	mg/L	10	08/14/13	EPA200.8		JGS
Manganese*	39.5	0.0050	0.0042	mg/L	10	08/14/13	EPA200.8		JGS
Zinc*	24.6	0.0500	0.0063	mg/L	10	08/14/13	EPA200.8		JGS

Dissolved Metals by ICPMS

Cadmium*	0.0022	0.0010	0.0004	mg/L	10	08/13/13	EPA200.8		JGS
Copper*	0.0056	0.0010	0.0001	mg/L	10	08/13/13	EPA200.8		JGS
Lead*	0.0072	0.0050	0.0003	mg/L	10	08/13/13	EPA200.8		JGS
Manganese*	40.9	0.0050	0.0042	mg/L	10	08/13/13	EPA200.8		JGS
Zinc*	12.4	0.0100	0.0013	mg/L	10	08/13/13	EPA200.8		JGS

Total Mercury by CVAA

Mercury*	<0.0002	0.0002	0.00002	mg/L	1	08/16/13	245.1		JGS
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Dissolved Mercury by CVAA

Mercury*	<0.0002	0.0002	0.00002	mg/L	1	08/16/13	245.1		JGS
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**5 Min #2****1308113-04 (Water)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**General Chemistry**

Alkalinity, Bicarbonate*	<10.0	10.0		mg/L	2	08/12/13	2320 B		JAW
Alkalinity, Carbonate*	<10.0	10.0		mg/L	2	08/12/13	2320 B		JAW
Alkalinity, Hydroxide*	<10.0	10.0		mg/L	2	08/12/13	2320 B		JAW
Alkalinity, Total*	<10.0	10.0		mg/L	2	08/12/13	2320 B		JAW
Chloride	<10.0	10.0	5.00	mg/L	1	08/13/13	4500-Cl- C		JAW
Conductivity*	1990	10.0		uS/cm	1	08/08/13	2510 B		MJV
pH*	5.00			pH Units	1	08/08/13	EPA150.1		MJV
Phosphate as P, Total	0.700	0.0500	0.0250	mg/L	1	08/16/13	EPA365.3	M5	KLJ
Sulfate	1340	200	21.6	mg/L	20	08/16/13	4500-SO42- E		ABP
TDS*	2080	10.0		mg/L	1	08/14/13	EPA160.1		ABP

**Total Recoverable Metals by ICP (E200.7)**

Aluminum*	148	0.500	0.015	mg/L	10	08/15/13	EPA200.7		JGS
Iron*	134	0.500	0.040	mg/L	10	08/15/13	EPA200.7		JGS
Silica (SiO2)	28.6	10.7	7.39	mg/L	10	08/15/13	Calc		JGS
Silicon	13.4	5.00	3.45	mg/L	10	08/15/13	EPA200.7		JGS

**Dissolved Metals by ICP**

Aluminum*	2.06	0.050	0.001	mg/L	1	08/13/13	EPA200.7		JGS
Calcium*	365	5.00	0.020	mg/L	5	08/13/13	EPA200.7		JGS
Iron*	104	0.050	0.004	mg/L	1	08/13/13	EPA200.7		JGS
Magnesium*	27.2	1.00	0.019	mg/L	1	08/13/13	EPA200.7		JGS
Potassium*	1.05	1.00	0.364	mg/L	1	08/13/13	EPA200.7		JGS
Silica (SiO2)	22.8	1.07	0.739	mg/L	1	08/13/13	Calc		JGS
Silicon	10.7	0.500	0.345	mg/L	1	08/13/13	EPA200.7		JGS
Sodium*	8.61	1.00	0.004	mg/L	1	08/13/13	EPA200.7		JGS

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**5 Min #2****1308113-04 (Water)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Total Recoverable Metals by ICPMS (E200.8)**

Cadmium*	0.0016	0.0010	0.0004	mg/L	10	08/14/13	EPA200.8		JGS
Copper*	0.0245	0.0100	0.0013	mg/L	10	08/14/13	EPA200.8		JGS
Lead*	0.0122	0.0050	0.0003	mg/L	10	08/14/13	EPA200.8		JGS
Manganese*	39.2	0.0050	0.0042	mg/L	10	08/14/13	EPA200.8		JGS
Zinc*	21.0	0.0500	0.0063	mg/L	10	08/14/13	EPA200.8		JGS

**Dissolved Metals by ICPMS**

Cadmium*	0.0017	0.0010	0.0004	mg/L	10	08/13/13	EPA200.8		JGS
Copper*	0.0039	0.0010	0.0001	mg/L	10	08/13/13	EPA200.8		JGS
Lead*	<0.0050	0.0050	0.0003	mg/L	10	08/13/13	EPA200.8		JGS
Manganese*	38.7	0.0050	0.0042	mg/L	10	08/13/13	EPA200.8		JGS
Zinc*	11.4	0.0100	0.0013	mg/L	10	08/13/13	EPA200.8		JGS

**Total Mercury by CVAA**

Mercury*	<0.0002	0.0002	0.00002	mg/L	1	08/16/13	245.1		JGS
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**Dissolved Mercury by CVAA**

Mercury*	<0.0002	0.0002	0.00002	mg/L	1	08/16/13	245.1		JGS
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Waste Water Management, Inc.  
2820 Dorr Ave, Ste 200  
Fairfax VA, 22031

Project: EC Durango Pilot  
Project Name / Number: BLM  
Project Manager: Mike Rigby

Reported:  
08/21/13 09:40

### General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B308110 - General Prep - Wet Chem

Duplicate (B308110-DUP1)		Source: 1308102-01		Prepared & Analyzed: 08/08/13						
Conductivity	13400	10.0	uS/cm		13300			1.20	20	
Reference (B308110-SRM2)				Prepared & Analyzed: 08/08/13						
Conductivity	1530		uS/cm	1500		102	94-106			

#### Batch B308114 - General Prep - Wet Chem

Duplicate (B308114-DUP2)		Source: 1308113-01		Prepared & Analyzed: 08/08/13						
pH	5.55		pH Units		5.50			0.905	20	
Reference (B308114-SRM1)				Prepared & Analyzed: 08/08/13						
pH	8.71		pH Units	9.05		96.2	90-110			

#### Batch B308123 - General Prep - Wet Chem

Blank (B308123-BLK1)				Prepared & Analyzed: 08/13/13						
Chloride	ND	10.0	mg/L							
LCS (B308123-BS1)				Prepared & Analyzed: 08/13/13						
Chloride	98.0	10.0	mg/L	100		98.0	85-115			
LCS Dup (B308123-BSD1)				Prepared & Analyzed: 08/13/13						
Chloride	99.0	10.0	mg/L	100		99.0	85-115	1.02	20	

#### Batch B308124 - General Prep - Wet Chem

Blank (B308124-BLK1)				Prepared: 08/12/13 Analyzed: 08/13/13						
Chloride	ND	10.0	mg/L							

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Fairfax VA, 22031

Project: EC Durango Pilot  
Project Name / Number: BLM  
Project Manager: Mike Rigby

Reported:  
08/21/13 09:40

### General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B308124 - General Prep - Wet Chem

##### LCS (B308124-BS1)

Prepared: 08/12/13 Analyzed: 08/13/13

Chloride	97.0	10.0	mg/L	100	97.0	85-115			
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##### LCS Dup (B308124-BSD1)

Prepared: 08/12/13 Analyzed: 08/13/13

Chloride	98.0	10.0	mg/L	100	98.0	85-115	1.03	20	
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#### Batch B308130 - General Prep - Wet Chem

##### Blank (B308130-BLK1)

Prepared & Analyzed: 08/12/13

Alkalinity, Total	ND	10.0	mg/L						
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##### LCS (B308130-BS1)

Prepared & Analyzed: 08/12/13

Alkalinity, Total	104	10.0	mg/L	100	104	85-115			
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##### LCS Dup (B308130-BSD1)

Prepared & Analyzed: 08/12/13

Alkalinity, Total	103	10.0	mg/L	100	103	85-115	0.966	20	
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#### Batch B308141 - General Prep - Wet Chem

##### Blank (B308141-BLK1)

Prepared: 08/13/13 Analyzed: 08/14/13

TDS	ND	10.0	mg/L						
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##### Duplicate (B308141-DUP2)

Source: 1308113-01

Prepared: 08/13/13 Analyzed: 08/14/13

TDS	2420	10.0	mg/L	2480	2.45	20			
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##### Reference (B308141-SRM1)

Prepared: 08/13/13 Analyzed: 08/14/13

TDS	2740	10.0	mg/L		85-115				
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2820 Dorr Ave, Ste 200  
Fairfax VA, 22031

Project: EC Durango Pilot  
Project Name / Number: BLM  
Project Manager: Mike Rigby

Reported:  
08/21/13 09:40

### General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B308167 - General Prep - Wet Chem

##### Blank (B308167-BLK1)

Prepared &amp; Analyzed: 08/16/13

Sulfate	ND	10.0	mg/L
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##### LCS (B308167-BS1)

Prepared &amp; Analyzed: 08/16/13

Sulfate	47.0	10.0	mg/L	50.0	94.0	85-115
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##### LCS Dup (B308167-BSD1)

Prepared &amp; Analyzed: 08/16/13

Sulfate	47.0	10.0	mg/L	50.0	94.0	85-115	0.00	20
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#### Batch B308181 - General Prep - Wet Chem

##### Blank (B308181-BLK1)

Prepared &amp; Analyzed: 08/16/13

Phosphate as P, Total	ND	0.0500	mg/L
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##### LCS (B308181-BS1)

Prepared &amp; Analyzed: 08/16/13

Phosphate as P, Total	0.504	0.0500	mg/L	0.500	101	85-115
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##### LCS Dup (B308181-BSD1)

Prepared &amp; Analyzed: 08/16/13

Phosphate as P, Total	0.502	0.0500	mg/L	0.500	100	85-115	0.398	20
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2820 Dorr Ave, Ste 200  
Fairfax VA, 22031

Project: EC Durango Pilot  
Project Name / Number: BLM  
Project Manager: Mike Rigby

Reported:  
08/21/13 09:40

### Total Recoverable Metals by ICP (E200.7) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B308153 - EPA 200.2

##### Blank (B308153-BLK1)

Prepared & Analyzed: 08/15/13

Aluminum	ND	0.050	mg/L							
Iron	ND	0.050	mg/L							
Silicon	ND	0.500	mg/L							

##### LCS (B308153-BS1)

Prepared & Analyzed: 08/15/13

Aluminum	4.38	0.050	mg/L	4.00		109	85-115			
Iron	4.39	0.050	mg/L	4.00		110	85-115			
Silicon	3.93	0.500	mg/L	4.00		98.3	85-115			

##### LCS Dup (B308153-BSD1)

Prepared & Analyzed: 08/15/13

Aluminum	4.41	0.050	mg/L	4.00		110	85-115	0.851	20	
Iron	4.39	0.050	mg/L	4.00		110	85-115	0.0417	20	
Silicon	3.96	0.500	mg/L	4.00		99.0	85-115	0.712	20	

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2820 Dorr Ave, Ste 200  
Fairfax VA, 22031

Project: EC Durango Pilot  
Project Name / Number: BLM  
Project Manager: Mike Rigby

Reported:  
08/21/13 09:40

### Dissolved Metals by ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B308103 - Dissolved Metals, E200.7/E200.8

##### Blank (B308103-BLK1)

Prepared: 08/12/13 Analyzed: 08/13/13

Aluminum	ND	0.050	mg/L
Calcium	ND	1.00	mg/L
Iron	ND	0.050	mg/L
Magnesium	ND	1.00	mg/L
Potassium	ND	1.00	mg/L
Silicon	ND	0.500	mg/L
Sodium	ND	1.00	mg/L

##### LCS (B308103-BS1)

Prepared: 08/12/13 Analyzed: 08/13/13

Aluminum	5.15	0.050	mg/L	5.00	103	85-115
Calcium	5.09	1.00	mg/L	5.00	102	85-115
Iron	5.16	0.050	mg/L	5.00	103	85-115
Magnesium	26.7	1.00	mg/L	25.0	107	85-115
Potassium	10.0	1.00	mg/L	10.0	100	85-115
Silicon	4.92	0.500	mg/L	5.00	98.3	85-115
Sodium	8.01	1.00	mg/L	8.10	98.9	85-115

##### LCS Dup (B308103-BSD1)

Prepared: 08/12/13 Analyzed: 08/13/13

Aluminum	5.16	0.050	mg/L	5.00	103	85-115	0.193	20
Calcium	5.10	1.00	mg/L	5.00	102	85-115	0.177	20
Iron	5.18	0.050	mg/L	5.00	104	85-115	0.232	20
Magnesium	26.7	1.00	mg/L	25.0	107	85-115	0.0637	20
Potassium	10.0	1.00	mg/L	10.0	100	85-115	0.121	20
Silicon	4.95	0.500	mg/L	5.00	99.1	85-115	0.742	20
Sodium	8.03	1.00	mg/L	8.10	99.2	85-115	0.239	20

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2820 Dorr Ave, Ste 200  
Fairfax VA, 22031

Project: EC Durango Pilot  
Project Name / Number: BLM  
Project Manager: Mike Rigby

Reported:  
08/21/13 09:40

### Total Recoverable Metals by ICPMS (E200.8) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B308133 - EPA 200.2M

##### Blank (B308133-BLK1)

Prepared: 08/13/13 Analyzed: 08/14/13

Cadmium	ND	0.0001	mg/L							
Copper	0.0007	0.0001	mg/L							B3
Lead	ND	0.0005	mg/L							
Manganese	ND	0.0005	mg/L							
Zinc	0.0042	0.0010	mg/L							B3

##### LCS (B308133-BS1)

Prepared: 08/13/13 Analyzed: 08/14/13

Cadmium	0.0508	0.0001	mg/L	0.0500		102	85-115			
Copper	0.0503	0.0001	mg/L	0.0500		101	85-115			
Lead	0.0481	0.0005	mg/L	0.0500		96.2	85-115			
Manganese	0.0461	0.0005	mg/L	0.0500		92.2	85-115			
Zinc	0.0576	0.0010	mg/L	0.0500		115	75-125			

##### LCS Dup (B308133-BSD1)

Prepared: 08/13/13 Analyzed: 08/14/13

Cadmium	0.0514	0.0001	mg/L	0.0500		103	85-115	1.23	20	
Copper	0.0516	0.0001	mg/L	0.0500		103	85-115	2.60	20	
Lead	0.0495	0.0005	mg/L	0.0500		98.9	85-115	2.85	20	
Manganese	0.0473	0.0005	mg/L	0.0500		94.6	85-115	2.67	20	
Zinc	0.0510	0.0010	mg/L	0.0500		102	75-125	12.2	20	

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Project: EC Durango Pilot  
Project Name / Number: BLM  
Project Manager: Mike Rigby

Reported:  
08/21/13 09:40

### Dissolved Metals by ICPMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B308121 - Dissolved Metals, E200.7/E200.8

##### Blank (B308121-BLK1)

Prepared & Analyzed: 08/13/13

Cadmium	ND	0.0001	mg/L							
Copper	ND	0.0001	mg/L							
Lead	ND	0.0005	mg/L							
Manganese	ND	0.0005	mg/L							
Zinc	ND	0.0010	mg/L							

##### LCS (B308121-BS1)

Prepared & Analyzed: 08/13/13

Cadmium	0.0517	0.0001	mg/L	0.0500		103	85-115			
Copper	0.0536	0.0001	mg/L	0.0500		107	85-115			
Lead	0.0499	0.0005	mg/L	0.0500		99.9	85-115			
Manganese	0.0540	0.0005	mg/L	0.0500		108	85-115			
Zinc	0.0493	0.0010	mg/L	0.0500		98.6	85-115			

##### LCS Dup (B308121-BSD1)

Prepared & Analyzed: 08/13/13

Cadmium	0.0518	0.0001	mg/L	0.0500		104	85-115	0.204	20	
Copper	0.0535	0.0001	mg/L	0.0500		107	85-115	0.104	20	
Lead	0.0489	0.0005	mg/L	0.0500		97.8	85-115	2.13	20	
Manganese	0.0536	0.0005	mg/L	0.0500		107	85-115	0.737	20	
Zinc	0.0518	0.0010	mg/L	0.0500		104	85-115	5.04	20	

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Project: EC Durango Pilot  
Project Name / Number: BLM  
Project Manager: Mike Rigby

Reported:  
08/21/13 09:40

### Total Mercury by CVAA - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B308163 - EPA 245.1/7470

##### Blank (B308163-BLK1)

Prepared & Analyzed: 08/16/13

Mercury	ND	0.0002	mg/L
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##### LCS (B308163-BS1)

Prepared & Analyzed: 08/16/13

Mercury	0.0021	0.0002	mg/L	0.00200	104	85-115
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##### LCS Dup (B308163-BSD1)

Prepared & Analyzed: 08/16/13

Mercury	0.0021	0.0002	mg/L	0.00200	103	85-115	1.01	20
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2820 Dorr Ave, Ste 200  
Fairfax VA, 22031

Project: EC Durango Pilot  
Project Name / Number: BLM  
Project Manager: Mike Rigby

Reported:  
08/21/13 09:40

### Dissolved Mercury by CVAA - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B308162 - EPA 245.1/7470

##### Blank (B308162-BLK1)

Prepared & Analyzed: 08/16/13

Mercury	ND	0.0002	mg/L
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##### LCS (B308162-BS1)

Prepared & Analyzed: 08/16/13

Mercury	0.0021	0.0002	mg/L	0.00200	104	85-115
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##### LCS Dup (B308162-BSD1)

Prepared & Analyzed: 08/16/13

Mercury	0.0021	0.0002	mg/L	0.00200	103	85-115	1.01	20
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2820 Dorr Ave, Ste 200  
Fairfax VA, 22031

Project: EC Durango Pilot  
Project Name / Number: BLM  
Project Manager: Mike Rigby

Reported:  
08/21/13 09:40

### Notes and Definitions

M5	Sample was chosen for matrix spike. Spike recovery less than 50%, possible matrix interference in sample.
B3	Target analyte detected in method blank or continuing calibration blank. Reporting limit elevated to account for blank result.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis *Results reported on as received basis unless designated as dry.
RPD	Relative Percent Difference
LCS	Laboratory Control Sample (Blank Spike)
RL	Report Limit
MDL	Method Detection Limit

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CHAIN OF CUSTODY RECORD

Page \_\_\_\_ of \_\_\_\_

Client: Waste Water Management

Contact: David R. Rishy

Address: 2820 70th Avenue #200

Fairfax VA 22031

Phone Number: 703 846 0078

Email: david.rishy@wum.net

NOTES:

- 1) Ensure proper container packaging.
- 2) Ship samples promptly following collection.
- 3) Designate Sample Reject Disposition.

Table 1. - Matrix Type

1 = Surface Water, 2 = Ground Water  
3 = Soil/Sediment, 4 = Prod. W., 5 = Oil  
6 = Waste, 7 = Other (Specify) 1

FOR GAL USE ONLY

GAL JOB #

1308-113

Project Name:

Samplers Signature: David Rishy

Lab Name: Green Analytical Laboratories (970) 247-4220 FAX (970) 247-4227

Address: 75 Suttle Street, Durango, CO 81303 www.greenanalytical.com

Analyses Required

Sample ID	Date	Time	Collected by: (Init.)	Matrix Type From Table 1	No. of Containers	Sample Filtered ? Y/N	Unpreserved (Ice Only)	Preservative(s)					Other (Specify)	Analyses Required					Comments
								HNO3	HCL	H2SO4	NAOH								
1. Raw	8/8/13	1400	DR	7	3		✓						✓						
2. 2 Min		1400	DR		3		✓						✓						
3. 5 Min		1430	DR	"	3		✓						✓						
4. 5 Min #2		1430	DR	"	3		✓						✓						
5.																			
6.																			
7.																			
8.																			
9.																			
10.																			
Relinquished by:				Date:				Time:				Received by:				Date:			
Relinquished by:				Date:				Time:				Received by:				Date:			
Relinquished by:				Date:				Time:				Received by:				Date:			

See Attached

\*Add mine discharge American Tunnel  
Comments #15  
25-2730

\* Sample Reject: [ ] Return [ ] Dispose [ ] Store (30 Days)

## Project Information

### Waste Water Management, Inc.

2820 Dorr Ave, Ste 200  
Fairfax, VA 22031

Phone: (703) 846-0098

8/6/2013

Fax:-

Laboratory PM: Debbie Zufelt

Project Name: EC Durango Pilot  
Project Number: BLM  
Client PM: Mike Rigby  
Comments:

Invoice To: Waste Water Management, Inc.  
Invoice Bid: BLM  
Invoice Manager: Mike Rigby

Analysis	Comment
Alkalinity, Bicarbonate	
Alkalinity, Carbonate	
Alkalinity, Hydroxide	
Alkalinity, Total	
Aluminum Dissolved by ICP	
Aluminum Total Recoverable by ICP	
Cadmium Dissolved by ICPMS	
Cadmium Total Recoverable by ICPMS	
Calcium Dissolved by ICP	
Chloride	
Copper Dissolved by ICPMS	
Copper Total Recoverable by ICPMS	
Iron Dissolved by ICP	
Iron Total Recoverable by ICP	
Lead Dissolved by ICPMS	
Lead Total Recoverable by ICPMS	
Magnesium Dissolved by ICP	
Manganese Dissolved by ICPMS	
Manganese Total Recoverable by ICPMS	
Mercury Dissolved by CVAA	
Mercury Total by CVAA	
Potassium Dissolved by ICP	
Sodium Dissolved by ICP	
Sulfate	
Zinc Dissolved by ICPMS	
Zinc Total Recoverable by ICPMS	

200-2

Just Dissolved CATS  
per Mike Rigby

Add: Conductivity, TDS, pH, ~~Mn~~, ~~H<sub>2</sub>S~~, Silica, ~~Fe~~, Ca, K  
Mg, PO<sub>4</sub>